

## §2. Data Transfer from GAMMA 10 to LHD Virtual Laboratory via SNET

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We have started to show the total collection data in GAMMA10 on Plasma Research Center, University of Tsukuba with the collaboration of LABCOM group.

In GAMMA 10, base data acquisition is performed by using a CAMAC system by using Windows PC. These data is collected on the Soralis10 data server system with 4TB RAID system. In addition, we have many stand alone PC data collection systems for many diagnostics. This year, we constructed the Linux (CentOS) data collection server system with 24TB RAID, in order to collect total collection data in GAMMA 10, such as CAMAC collection data and many other diagnostic

data.

We have connected the NIFS LABCOM/X system under the new framework of “Fusion Virtual Laboratory” where users can access the data equivalently regardless of their whereabouts. Such the activity is named “SNET”, which is based on a closed VPN on Japanese academic internet backbone SINET3 and covers multiple experimental remote devises. In Fig. 1, we show the SNET formation between GAMMA 10 local network and NIFS server segment. We tested the data transfer from the GAMMA 10 data collection server to the NIFS LABCOM/X system, and succeeded. Now, we have started the GAMMA 10 data to transfer to the NIFS LABCOM/X system, in order to show the total GAMMA 10 collection data.

Moreover, we have constructed the web-pages (<http://g10db.prc.tsukuba.ac.jp/G10DB/>) for accessing the GAMMA 10 experimental sequence database (Fig. 2) and plasma shot data, such as H-alpha line emission, diamagnetism, line density, and vacuum degree.

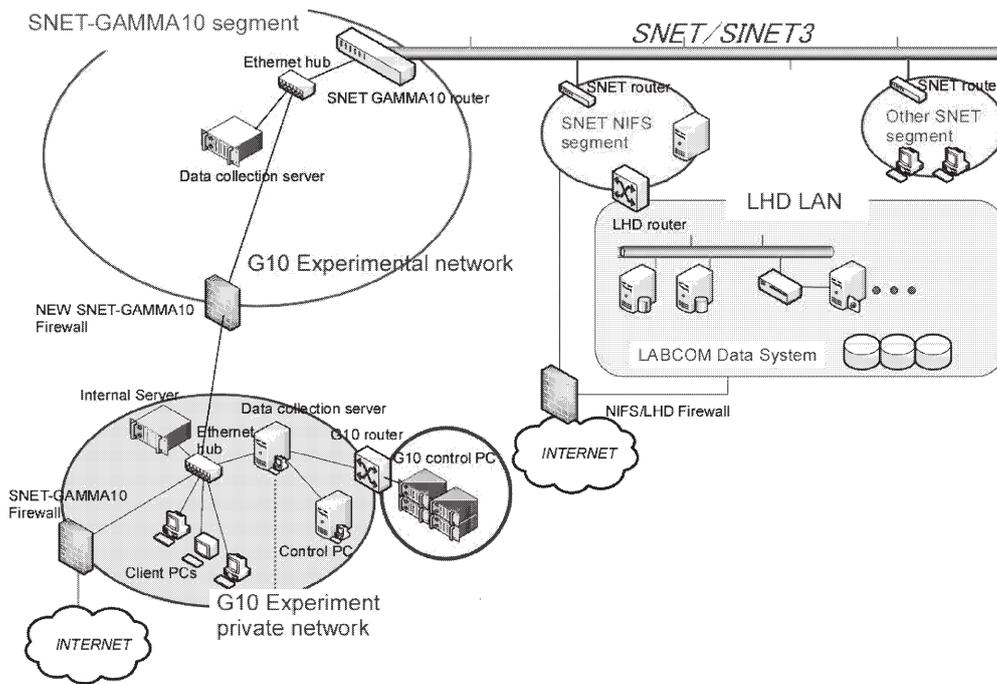


Fig 1. SNET formation between GAMMA 10 local network and NIFS server segment.

ShotNumber検索

GAMMA 10 最新ショット条件検索  
表示数 1 show

Main	Coil	PG_E	PG_W	GP1a2a	GP1b2b	GP34	GP78	s_NBI	RF1	RF2	RF3	ECRH_pe	ECRH_pw	ECRH_be	ECRH_bw	ECRH_c	G/F	ML	Comment
	C-1281				sp1b	sp3		nbi_Lse	E 9.9	E 6.86							ep	mlc1	
	CF 6.43				45-90	55-200		160-170	Type II	Type II							F	F	
	FB 6.21				290	70	sp7	20 kW	tr 4	tr 30	W						cl	101	
	RT 5.56				○	○		20 A	0.13	0.13	10						F	40	
212275	AB 6.09				○	○		○	○	○	Bar						br		CRcoil11XUP
2009-07-03 16:13:00	MR 9.1			sp2	sp2b	sp4	sp9	nbi_Lsw	W	W	150-240						G		
	FT 0.3				45-80	55-200		160-170	10.3	6.36	tr 10						br		
	12分				250	70		20 kW	Type II	Type II	120						F		
	trans 33333				○	○		20 A	0.34	0.13	○						ent		
					○	○		○	○	○							F	E360W380	

Fig. 2. GAMMA 10 shot sequence database